Linear Systems (F)

Solve each system of equations.

1. 3a + 4u + z = 35 4a + 4u = 40 a = 65. 4b + 2c + 3x = 32 2b + 4c = 164b = 16

2.
$$2u + 4x + 5y = 49$$

 $2u + 5x = 27$
 $u = 6$
6. $2a + 2b + 5x = 17$
 $6a + 3b = 30$
 $2a = 8$

3. 4a + c + 6z = 32 6a + 6c = 48 a = 47. 6u + v + 2y = 19 5u + 2v = 165u = 10

4. 2a + 3b + z = 27 5a + b = 16 5a = 108. 5b + 3c + v = 33 6b + 5c = 404b = 20

Linear Systems (F) Answers

Solve each system of equations.

1. 3a + 4u + z = 35
4a + 4u = 40
a = 6
a = 6, u = 4, z = 15. 4b + 2c + 3x = 32
2b + 4c = 16
4b = 16
b = 4, c = 2, x = 4

2. 2u + 4x + 5y = 49 2u + 5x = 27 u = 6u = 6, x = 3, y = 5

6.
$$2a + 2b + 5x = 17$$

 $6a + 3b = 30$
 $2a = 8$
 $a = 4, b = 2, x = 1$

3. 4a + c + 6z = 32 6a + 6c = 48 a = 4a = 4, c = 4, z = 2 7. 6u + v + 2y = 19 5u + 2v = 16 5u = 10u = 2, v = 3, y = 2

4. 2a + 3b + z = 27 5a + b = 16 5a = 10a = 2, b = 6, z = 5

8.
$$5b + 3c + v = 33$$

 $6b + 5c = 40$
 $4b = 20$
 $b = 5, c = 2, v = 2$